

AMENDMENTS TO THE SPECIFICATION:

Please add the following new paragraphs to the "Summary of the Invention" section of the application following paragraph [0020], as published (or after the second paragraph on page 5 of the application as filed):

[0020.1] According to one aspect of the invention, there is provided a method for cropping a computer generated original image on a display, comprising the steps of: adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image; distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said boundary is accurately positioned for cropping; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens; wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region. In the above method, said adjusting may be performed by moving a cursor on said display with a pointing device. The cursor may be an icon. The pointing device may be a mouse. The movable boundary may be a polygon. The original image may have one or more layers. The regions may have a predetermined selection of said layers. And, the cropped image may have a predetermined selection of said layers.

[0020.2] According to another aspect of the invention, there is provided a method for measuring within a computer generated original image on a display, comprising the steps of: adjusting a user-selected movable line segment on said original image to define points on

said original image for measuring between; distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said points are accurately positioned for measuring; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens; wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region. In the above method, said adjusting may be performed by moving a cursor on said display with a pointing device. The cursor may be an icon. The pointing device may be a mouse. And, the line segment may be a straight line.

[0020.3] According to another aspect of the invention, there is provided a method for cropping a computer generated original image on a display, comprising: adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image; and, distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said boundary is accurately positioned for cropping. In the above method, said distorting may further include displaying said boundary over said distorted image on said display. The method may further include displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens. And, said lens may include a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide bar icon for adjusting a degree of scooping

for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.

[0020.4] According to another aspect of the invention, there is provided a method for measuring within a computer generated original image on a display, comprising: adjusting a user-selected movable line segment on said original image to define points on said original image for measuring between; and, distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said points are accurately positioned for measuring. In the above method, said distorting may further include displaying said line segment over said distorted image on said display. The method may further include displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens. And, said lens may include a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.